

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P283555

Luminaire Tested: **LDA2B108030D010 EU2B10FL408030 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283555
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-15)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B108030D010 EU2B10FL408030 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 878.9 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.55
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

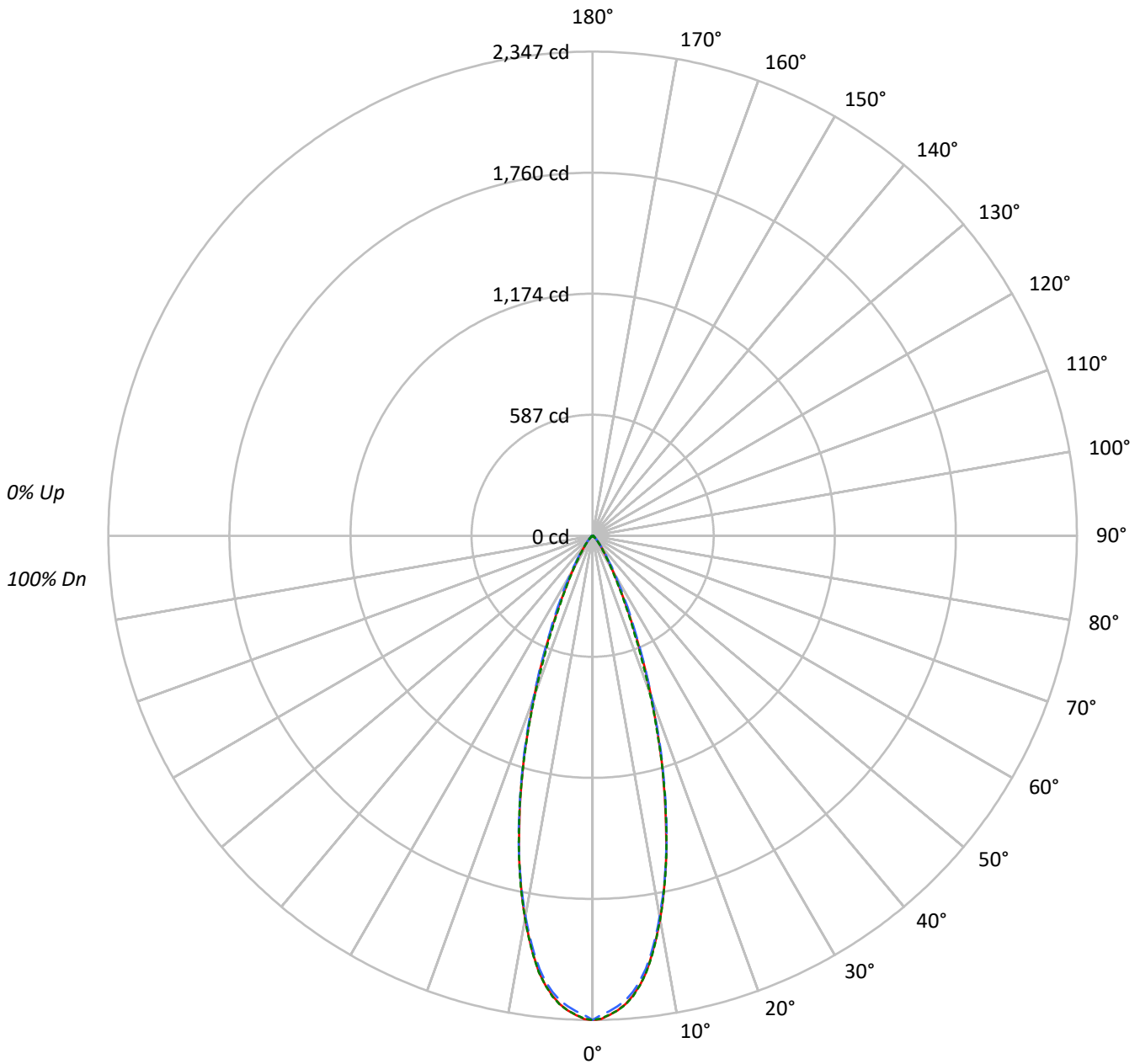
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95																			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90																			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86																			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82																			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79																			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75																			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72																			
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69																			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67																			
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1157969	1157969	1157969
5°	1108213	1099893	1109897
10°	944133	938222	945135
15°	695867	700413	698166
20°	434405	442438	424850
25°	224387	240772	213119
30°	107614	123337	102543
35°	55531	61493	51977
40°	31107	32717	29561
45°	18908	18908	18210
50°	9824	12127	9824
55°	5075	8085	5505
60°	5822	5822	5822
65°	6304	6304	6304
70°	7789	7068	7789
75°	7434	7434	7434
80°	7103	7103	7103
85°	5661	5661	5661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.9	23.0
10°-20°	370.8	42.2
20°-30°	201.0	22.9
30°-40°	64.5	7.3
40°-50°	22.0	2.5
50°-60°	7.7	0.9
60°-70°	5.6	0.6
70°-80°	4.1	0.5
80°-90°	1.2	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	773.8	88.0
0°-40°	838.3	95.4
0°-60°	868.0	98.8
0°-90°	878.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	878.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2347	2347	2347	2347	2347	
5°	2238	2224	2221	2243	2241	202
15°	1362	1374	1371	1378	1367	369
25°	412	431	442	412	392	198
35°	92	96	102	93	86	62
45°	27	28	27	27	26	22
55°	6	7	9	7	6	6
65°	5	6	5	6	5	6
75°	4	4	4	4	4	4
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2347.1	2347.1	2347.1	2347.1	2347.1
1°	2343.2	2326.4	2323.9	2345.6	2340.7
2°	2324.4	2308.7	2306.2	2327.9	2323.5
3°	2303.7	2289.4	2284.5	2307.2	2304.2
4°	2276.1	2262.8	2258.4	2281.0	2278.6
5°	2237.7	2223.8	2220.9	2243.1	2241.1
6°	2190.3	2179.0	2173.6	2195.7	2191.8
7°	2131.1	2120.8	2114.9	2131.1	2133.1
8°	2054.2	2049.3	2042.4	2058.7	2058.7
9°	1972.4	1967.9	1960.5	1975.3	1975.3
10°	1884.6	1881.6	1872.8	1886.6	1886.6
11°	1788.4	1787.0	1780.6	1791.9	1791.9
12°	1687.4	1690.8	1684.9	1694.8	1691.3
13°	1586.3	1584.8	1585.3	1592.7	1587.3
14°	1471.9	1480.8	1482.2	1486.7	1478.3
15°	1362.4	1373.8	1371.3	1377.7	1366.9
16°	1250.5	1263.3	1262.8	1264.3	1253.9
17°	1145.9	1153.3	1153.8	1152.4	1139.5
18°	1034.5	1044.9	1044.9	1042.4	1027.1
19°	925.5	933.4	938.8	933.4	915.7
20°	827.4	832.8	842.7	828.9	809.2
21°	733.2	738.2	746.5	730.3	708.6
22°	643.0	649.4	657.3	638.6	615.9
23°	558.7	573.5	576.4	550.8	531.6
24°	481.3	498.0	503.0	476.8	456.6
25°	412.2	431.0	442.3	411.7	391.5
26°	352.6	370.8	384.6	354.0	334.8
27°	300.3	319.5	333.8	305.2	287.0
28°	255.4	274.2	289.0	262.3	245.1
29°	221.9	232.7	247.5	225.3	209.6
30°	188.9	200.7	216.5	193.8	180.0
32.5°	129.7	136.1	148.4	134.6	123.8
35°	92.2	96.2	102.1	92.7	86.3
37.5°	65.6	67.6	71.0	65.6	62.1
40°	48.3	49.3	50.8	47.8	45.9
42.5°	36.0	36.5	36.5	35.5	34.5
45°	27.1	27.6	27.1	27.1	26.1
47.5°	19.7	21.2	20.7	20.7	19.2
50°	12.8	15.8	15.8	15.3	12.8
52.5°	7.9	10.8	12.3	10.8	8.4
55°	5.9	7.4	9.4	7.4	6.4
57.5°	5.9	5.9	6.9	5.9	5.9
60°	5.9	5.9	5.9	5.9	5.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	5.4	5.4	5.4	5.4	5.4
70°	5.4	5.4	4.9	5.4	5.4
72.5°	4.9	4.9	4.4	4.9	4.4
75°	3.9	3.9	3.9	3.9	3.9
77.5°	3.0	3.0	3.0	3.0	3.0
80°	2.5	2.5	2.5	2.5	2.5
82.5°	1.5	1.5	1.5	2.0	1.5
85°	1.0	1.0	1.0	1.0	1.0
87.5°	0.5	0.5	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







62.5°	5.9	5.9	5.9	5.9	5.9
65°	5.4	5.9	5.4	5.9	5.4



(END OF REPORT)